DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2520

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This document has been recorded as

EXPLORATION PROJECT

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip Copies to USBM, & USGS. One copy was retained by Region II.

To: Code 700, Rm. 4640 Date 5-13-52

To: Opr. Committee Date 8/28/52

To: Mr Mittendorf Date

To: Mails & Files Date

To: Ellis (Docket) Date

To: Date

To: Date

To: Date

To: Date

To: Date

To: Date

To: Date

To: Date

To: Date

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CONTROLLED DOCUMENT

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Ellis
Weis
Needleman
Lemmon
Johnson
Keller

AUG 29 1952

Mr. M. J. Kouba
Indian Valley,
Idaho

Re: Docket No. DMEA-2520 (Columbium-Mica)
Idaho County, Idaho

Dear Mr. Kouba:

Reference is made to your application for Government aid on the captioned project in the amount of $16,385.47.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding material of acceptable grade and in quantities that will significantly improve the mineral supply position for the National Defense Program.

A careful study of your application and data available to this Agency, and an examination of the property concerned reveal that the probability of disclosing mineable reserves by your proposed exploration program is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for exploration aid is denied.

If additional work on your property reveals information which makes the project feasible, an application may be submitted for consideration.

Sincerely yours,

C. O. Mitendorf

(for) J.N. 8-29-52

Acting Administrator

EWEllis/gla 8-28-52
cc to: Adm. Reading File
Operating Committee
Docket
Messrs. S. Needleman-1347
J.J.Norton-G-232 GSA
Ellis
Keller
Field Team, Region II (2)

IN REPLY REFER TO:

G-MD-CNM

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 29 1952

Memorandum August 28, 1952

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA 2520 (Columbium).

To: E. W. Ellis, Rare and Miscellaneous Minerals Division, Defense Minerals Exploration Administration.

From: P. L. Weis, U. S. Geological Survey

Applicant: M. J. Kouba

Name of property: Kouba Pegmatite

Location of property: Idaho County, Idaho

Date of field team report: July 30, 1952

Authorship of field team report: Verne Fryklund, U. S. Geological Survey

Field team's recommendation: Denial

Comments: None

Action suggested: Follow field team's recommendation.

Paul L. Weis

Paul L. Weis

IN REPLY REFER TO:

G-MD-CNM

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

Memorandum August 28, 1952

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA 2520 (Columbium).

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Location of property: Idaho County, Idaho

Date of field team report: July 30, 1952

Authorship of field team report: Verne Fryklund, U. S. Geological Survey

Field team's recommendation: Denial

Comments: None

Action suggested: Follow field team's recommendation.

Paul L. Weis

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 29 1952

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA
Norton's files
P. L. Weis
J. Horan

PLWeis:fw
G-8/28/52

8/11/52 gla

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane 4, Washington

July 31, 1952

AUG 4 1952

Memorandum

To: F. E. Johnson, Chairman, Operating Committee, DMEA

From: Field Team, Region II

Subject: Field Team Recommendation on the application of Mr. M. J. Kouba, Idaho County, Idaho, Docket No. DMEA-2520 (Columbium)

Enclosed are four copies of an examination report prepared by Verne C. Fryklund, U. S. Geological Survey. The pegmatite is large, but it apparently contains practically no columbite. The Field Team concurrs in the recommendation that the application be denied.

M. E. Volin, Acting Executive Officer
Field Team, Region II
(Bureau of Mines)

S. Warren Hobbs, Acting Member
(U. S. Geological Survey)

cc: USBM (1)
Fryklund

5 copies of report rec'd in Mo. V. - 8/5/52 - B.O.

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane 4, Washington

Reviewed by
DMEA OPERATING COMMITTEE
8-8-52
(date)

July 30, 1952

DEPARTMENT OF THE INTERIOR
Bureau of Mines
AUG 4 1952

Memorandum

To: A. E. Weissenborn, Exec. Officer, DMEA Field Team, Region II

From: Verne C. Fryklund, Geologist, U. S. Geological Survey

Subject: Field examination of M. J. Kouba Pegmatite property, Idaho County, Idaho, Docket DMEA-2520 (Columbium)

Introduction

I visited the property with Mr. M. J. Kouba, owner, the afternoon of July 28, 1952. The appointment for this visit had been made in June after the referral had been received from the Operating Committee. According to Mr. Kouba, his original application was for columbite only, not for both columbite and mica.

Recommendation

The only columbite visible in the pegmatite is in crystals about one-quarter of an inch in diameter. I saw about fifteen of these crystals. I recommend that the application be denied. The mica is scrap mica only, and so recognized by Mr. Kouba.

Location

The property is fifty five miles from Lolo Montana in sec. 34 and 27, T. 37 N., R. 13 E. The property is about four hundred yards up hill from the new Lochsa River road. The claims are Spar No. 1 and Spar No. 2.

Geology

There are several small pits and trenches on the property, but the outcrop exposures, particularly of the zone that contained columbite, are fairly good.

The overall dimensions could not be determined because of cover, but the pegmatite is at least four hundred feet long and three hundred feet wide. A second exposure may be on the same pegmatite so that the length may be on the order of six hundred to seven hundred feet. The strike of the pegmatite is about N. 55° E., no other attitude could be determined. The country rock is "granite".

The zones recognized, from the core out, are:

1. Quartz core.
2. An almost pure microcline zone - that contained the observed columbite.
3. A microcline-quartz-scrap mica zone in contact with the pure microcline zone on the south end of the exposed pegmatite.
4. A graphic-granite zone containing a very minor amount of scrap mica in contact with the microcline zone on the north end of the exposed pegmatite.

The wall zone was not seen.

The exposure of the quartz core suggests that the upper portion of the pegmatite has been removed.

The only columbite I saw was in the microcline zone. It was in a small streak about six inches wide. Mr. Kouba dug out about fifteen crystals, the largest about one-quarter of an inch in diameter. Mr. Kouba had seen one columbite crystal in another portion of the well exposed microcline zone.

There is no doubt that the pegmatite contains a large tonnage of a very good grade of microcline. It is unfortunate that there is no nearby market.

Verne C. Fryklund

Verne C. Fryklund

cc: DMEA (4)
USBM (1)
USGS(SRO)
Fryklund

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane 4, Washington

Reviewed by
DMEA OPERATING COMMITTEE

(date)

July 30, 1952

Memorandum

To: A. E. Weissenborn, Exec. Officer, DMEA Field Team, Region II

From: Verne C. Fryklund, Geologist, U. S. Geological Survey

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cc: DMEA (4)
USBM (1)
USGS(SRO)
Fryklund

8/5/52

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane 4, Washington

July 31, 1952

Memorandum

To: F. E. Johnson, Chairman, Operating Committee, DMEA

From: Field Team, Region II

Subject: Field Team Recommendation on the application of Mr. M. J. Kouba, Idaho County, Idaho, Docket No. DMEA-2520 (Columbium)

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Field Team, Region II
(Bureau of Mines)

S. Warren Hobbs, Acting Member
(U. S. Geological Survey)

cc: USBM (1)
Fryklund

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane 4, Washington

July 30, 1952

Memorandum

To: A. E. Weissenborn, Exec. Officer, DMEA Field Team, Region II

From: Verne C. Fryklund, Geologist, U. S. Geological Survey

Subject: Field examination of M. J. Kouba Pegmatite property, Idaho County, Idaho, Docket DMEA-2520 (Columbium)

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There is no doubt that the pegmatite contains a large tonnage of a very good grade of microcline. It is unfortunate that there is no nearby market.

Verne C. Fryklund

cc: DMEA (4)
USBM (1)
USGS(ZRO)
Fryklund

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

AIR MAIL

Mr. A. E. Weissenborn
Executive Officer, Region II
DMEA Field Team
South 157 Howard Street
Spokane 8, Washington

Re: Docket No. DMEA-2520 (Columbium-mica)
F. J. Kouba
Idaho County, Idaho

Dear Mr. Weissenborn:

We are referring the above captioned application to you for a Field Team examination.

Apparently there has been no geological survey of the area in which the claim of the applicant is located, since we are unable to find any information concerning the occurrence of pegmatite dikes in that immediate district. As the Applicant has previously operated a feldspar-mica mine for his own account and seems to be well versed on pegmatite minerals, we believe that there is a good possibility of discovering an unknown deposit of importance.

If, on the completion of the examination, the Field Team believes that the property should be explored, we would appreciate it if they would aid the applicant in revising his application so as to present a proposed exploration project that would adequately explore the more highly mineralized area or areas of the dike. The estimated costs of the proposed project are well calculated and are in line with present operating costs.

Sincerely yours,

(signed) FRANK E. JOHNSON

Chairman, Operating Committee
Defense Minerals Exploration Administration

APPROVED: W. H. Hedges
Member, Bureau of Mines

D. M. Lemmon
Member, Geological Survey

HFKeller/jem
5/26/52
cc to: Adm. Reading File
Docket
Messrs. S.Needleman-1347
J.J.Norton-G-232 GS
Ellis
Keller
Opr. Comm.
Field Team, RegionII

FILE COPY
(SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

JUN 3 1952

JUN 3 1952

Mr. M. J. Souba
Indian Valley
Idaho

Re: Docket No. [illegible]-2520
(Columbia - Ica)
Idaho County, Idaho

Dear Mr. Souba:

Your application for assistance in exploring your property in Idaho County, Idaho, under the above captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration and has been referred to Mr. J. J. Eisenstorm, Executive Officer, Region II, Field Team, South 157 Cowan Street, Spokane 8, Washington, for a field examination.

The Regional Office will contact you at the earliest opportunity in regard to your project.

Sincerely yours,

C. O. Mittendorf (fw) 6/3

C. O. Mittendorf
Acting Administrator
Defense Minerals Exploration
Administration

HFKeller/jem
5/26/52
cc to: Adm. Reading File
Docket
Messrs. S.Needleman-1347
J.J.Norton-G-232
Ellis
Keller
Field Team, Region II

5/20/52 gla

IN REPLY REFER TO:

G-MD-JJN

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

May 19, 1952

Memorandum

REVIEW OF APPLICATION DMEA-2520 (pegmatite minerals)

To: Ernest Wm. Ellis, Chief, Rare and Miscellaneous Metals Division, DMEA
From: J. J. Norton, U. S. Geological Survey
Applicant: M. J. Kouba
Name of property: Spar No. 2.
Location of property: Eastern part of Idaho County, Idaho.
Estimated cost of project: $16,385.47.
Summary of applicant's proposal:
Trenches, drifts, crosscuts.
Sources of information on applicant's property:
None.
Comments: The material sent to me for study does not include copies of the map and assay reports that the applicant states he has submitted.

This application is much better prepared than most other pegmatite applications. Furthermore, the applicant's statements seem to indicate a very great likelihood that he has a significant deposit which previously has not been known to exist.

Inasmuch as no geologic or engineering report has ever been prepared on this property the docket should be sent to the field team for a complete report.

RECOMMENDATION:
Refer to field team.

J. J. Norton
J. J. Norton

IN REPLY REFER TO:

G-MD-JJN

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

May 19, 1952

Memorandum

REVIEW OF APPLICATION DMEA-2520 (pegmatite minerals)

To: Ernest Wm. Ellis, Chief, Rare and Miscellaneous Metals Division, DMEA
From: J. J. Norton, U. S. Geological Survey
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Name of property: Spar No. 2.
Location of property: Eastern part of Idaho County, Idaho.
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RECOMMENDATION:
Refer to field team.

J. J. Norton

Norton:jeh
G-5/19/52
cc: Director's reading file 4212
Branch reading 4212
DMEA files
Norton G-230

DMEA-2520

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

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DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 8 1952

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2520

Date received 5-8-52

M. J. Kouba
Indian Valley
Idaho

Name and address of applicant

Date

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts. None
   (*b*) Linear feet of drifts and crosscuts. None
   (*c*) Linear feet of tunnels or adits. None
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☒ Owner.
   - ☐ Lessee.
   - ☐ Contractor.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 8 1952

5. Number of years in production None

   If not in production or operation, estimated date when production will begin
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production: None

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. Can not answer

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

Refer to attached papers Page - - - - -

M. J. Kouba----------Indian Valley, Idaho

1.(A) So far nothing has been produced, but there is an abundance of pure clean feldspar. (Copy of analysis attached) The spar outcrops over an area 400 feet wide and 800 feet long (check on map) that much can be seen protruding through the overburden. Towards one side of the dike there is a vein of pure mica (very little sheet mica exposed) varying in width from 1½ to 3 feet. The length is visible about 150 feet where it goes under the overburden. The foot and hanging walls of the mica vein are composed of very coarsely crystalized feldspars, quartz with some columbite, of which we had a spectagraphic analysis (analysis and explanation page 2 (Sample S2)

(B) I do not know how many by products there would be, as this property has never been mined, but there are many indications of a rare mineral producer especially beryl, columbite, and possibly sheet mica; due to the fact that this dike is so well crystalized, with each mineral well separated. This dike has been formed in a suitable formation to expect these minerals.

2. I staked this claim originally, so it has had no other name. Spar Number Two is the name I gave it

(A) None

(B) None

(C) None

(D) None. It has never been mined. There would be no pumping problems. Tremendous size. (check map) Could be mined on any scale desired, for feldspar or mica; other minerals I do not know. The only openings are small test holes that I have dug (about 5'x5'x5') through the overburden to try to determine the extent of the dike, and to suffice for discovery and assessment work. These test holes are marked on accompanying map and indicate what was in the bottom of each.

3

3. (A) Fifty-five miles by road to Lolo, Montana (railhead) in a south westerly direction.

(B) Unorganized mining district.

(C) Township 37 N. Section 34 and extends into section 27 Range 13E.

(D) Idaho County, State of Idaho

4. (A) Property has never been in operation.

(B) I would operate as owner.

5. Production--None.

I cannot estimate when production will begin, until preliminary work is completed, then I will know what I have in regards to rare mineral and in what quantity.

6.(A) The Applicant--Four years operating my own feldspar, mica and rare mineral mines in the Black Hills at Custer, S. Dakota. Six years contract mining in the Coeur-d'Alene mining district, in lead and zinc. Two years contract logging operations. Four years dam and highway, construction rock drilling. Thirteen years prospecting in my spare time.

(B) I would manage the project.

7. (A) No previous operations:

This property has never been developed, as we could not find a suitable market for the feldspar or mica due to high freight rates; or have I had available finances to develop it for rare minerals.

(B) No adjoining properties:

This property is in a primitive area. I have not had the opportunity to prospect it for other pegmatites dikes, but as a rule they lay in groups.

¢C) No private reports available;

I have not had this property examined.

12. An enormous pegmatite di..e lieing in a schist formation, the schists have been intruded by numerous pegmatites and granites of all sizes. Attached is a map of the dike. Explanations in No.1 (A) page 1.
I have not had the property examined by a geologist.

13. Access Roads:
Total mileage is fifty-five miles from the property to Lolo, Montana, which is the closest established residential point (also railhead). Twenty-five miles is tarred, thirty miles is natural gravel, of which fifteen miles is 2% adverse, and five miles 6% adverse for the loaded trucks. Thirty-five miles would average about 3% down grade. One half mile of road would have to be built from main road to mine.

14. Water:
There is an abundance of pure water the year around from a creek near by, which could be piped if necessary.

15. Power:
No electric power is available, but most of our power would be deisel fuel to drive air compresses, etc.

18. Yes, if this operation should be developed it would have to be a six months of a year operation due to heavy snows in that area, unless it were mined on a large enough scale to warrant snow removal. Some seasons would be longer.

(*b*) If deposit is other than pl[illegible]:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable) Tremendous tonnage of feldspar and mica. Other minerals unknown					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor: None

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities: None

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)

By M J Kouba
(Signature of authorized official)

May 1, 1952
(Date)

(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

Not To Be Filled in by Applicant

Docket No. DMEA-2520
Metal or Mineral
Date Received 5-8-52
Amount $
Participation (Government %)

M.J.Kouba
Indian Valley
Idaho

Name and address of applicant

Date

If you have already filed MF-100, give date filed _____, type of assistance requested _____,

DMA Docket Number (if available) _____

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
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MAY 8 1952

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)

By M J Kouba
(Signature of authorized official)

May 1, 1952
(Date)

(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

M. J. Kouba ----Indian Valley Idaho

1.(A) The property involved consists of parts of one unpatented mining claim, with no improvements. Attached is a map sketched to approximate scale, showing dike formation, size and proposed exploration work plus ~~two~~ three places where three samples were taken for analysis. Copies of analyses attached with explanations.

(B) I am the owner of the mining claim. My assessment work is up to date and recorded.

(C) The claim in question is named Spar Number Two.

Location, Oct. 2, 1950

Located in Idaho County, State of Idaho.

Recorded at county seat Grangeville, Idaho in date book 78 page 172.

Place of location; in an unorganized mining district, fifty-five miles by good road from Lolo, Montana; In a southwesterly direction. Twp. 37N, Range 13 E, section 34 and extends into section 27.

There are no adjoining claims except one that I own and staked for a mill site in case I would need to mill the ore, and for a camp site.

2. (A) I expect to find columbite, beryl, sheet mica and other rare minerals.

(B) An enourmous pegmatite dike lieing in a schist formation; the schists have been intruded by numerous pegmatites and granites of all sizes.

The dike in question is composed of thousands of tone of pure potash feldspar (analysis of which is attached). This spar outcrops over an area about 400 feet by 800 feet.

To one side of the dike there is a vein of pure scrap mica (very little sheet mica exposed) varying in width from one and one half feet to three feet. The length is visible for about 150 feet where it goes under the overburden. The foot and hanging wall of the mica vein are composed of a very coarsely crystalized feldspars, quartz with some columbite. I had a spectagraphic analysis on a sample of the columbite, that analysis is attached with further explanation ; the place where the sample was taken is marked on the map (sample S 2). On the highest part of the dike I found another speciamn of columbite (in place but near the surface) that place is marked on the map. Near that place is a vein (about 12 foot wide and exposed about 16 foot long) composed wholly of manganese iron garnets. (Copy of spectographic analysis on these garnets is attached and is named sample No.1 which is also marked on the map.

There is a lot of magnetite float scattered around but I do not know where it came from.

I do believe I would find rare minerals in commercial quantities because I have found a small amount of columbite; because the analyses show this dike is carrying some very rare mineral and because there are such tremendous quantities of commercial potash feldspar, pure mica and pure quartz. All the minerals exposed in the dike are in such tremendous quantity and good quality that it is only reasonable to believe that the other associated minerals would occur in the same way if encountered. I have mined many of the rare minerals in S. Dak. so am familiar with the formation and the ways they occur.

Should this dike prove satisfactory for commercial mining there may be other pegmatites in the area of commercial value, as this claim is located in an area that has not been mined for rare minerals at any time.

These pegmatites are not mentioned in the geological survey proffessional paper 229 on mica and beryl pegmatites in Idaho and Montana, U. S. Government printing office Washington D. C. ,1950

3.(A) To determine the extent of the rare minerals by driving 150 feet of 5foot by 7foot tunnel and probably several feet of crosscut,on a highly mineralized part of the dike(marked on map)also trench stripping,to find the edges of the dike as they may alsocarry commercial amounts of mineral.(Also marked on the map

I would have to build one half mile of road to make the dike accessible.

I plan to hire a D8 cat and op-rator by the ~~hur~~ hour or by linear feet. In either case the cost would be about the same. To build the road and to trench strip the edges of the dike also drill and blast any likely looking places that show up in the stripping operation. I plan to do this first to make the pegmatite accessible and to be sure I have picked the best place to open the dike;but I will need a compressor and drilling equipment on hand from the start as there are a few spots that may have to be drilled and blasted in order to get a road through.

It costs $12.00 and hour to hire a cat and operator or$1.00 per linear foot. There will be 2640 feet of road,plus 600 feet of stripping. It would take a good cat about 40 hours under existing conditions to complete the stripping.(Stripping is marked on the map with yellow lines).

Stripping dike @$12.00 per hour - - - - - - - - - -	$480.00
Road @ $1.00 per linear foot * --- - - - - - -	$2,640.00
Hired cat and operator - - - ---total- -	$3,120.00
Working capital including materials,explosives,facilities,wages buildings,etc.	$9811.07
Equipment furnished by me and other equipment rented - - - - - -	$1320.00
Equipment purchased new - - - - - - - - - - -	$2,134.40
Total cost of project - - - - - - - - -	$16,385.47

(B) The project would be completed in about five months from the time the capital was made available,if made available early in the operating season. If finances are not made available until late,the project would have to be carried over into the next season. That includes the time it would take to locate and get delivery on equipment,etc. It would take about thirty days to get started and ninety -six working days more to complete the project.

M. J. Kouba - - - - -Indian Valley, Idaho

4. Detailed map attached.

5. Existing facilities ,etc. None

6. I would need a temporary camp which would consist of three tents with floors and tent frames.

3 - - - -12x14 foot tents and flys @ $75.00	- - - - - -	$225.00
Rough lumber @ $80.00 per M. 2100 board feet	- - - -	$168.00
Labor on building camp and clearing	- - - - - - - - -	$60.00
Total cost of camp	- - - - - - - - - - -	$458.00

M. J. Kouba - - - - - - Indian Valley, Idaho

7(A) To be rented on a rental purchase basis:

1. 105 C foot two stage compressor, for 5 months at $ 140. per month (freight on compressor $150) Total $ 850.00

(B) Purchased new and delivered

200 foot one inch air hose with fittings - - - - - - - - - - - - -	$ 162.00
200 foot ½ inch water pressure hose with fittings - - - - - - - -	$ 60.00
1 sinker drill -	$ 465.00
1 air feed leg -	$ 120.00
6 sets drill steel 7/8 inch up to 12 foot long, 2 changes - - - -	$279. 00
12 1½" carbide Rockbits price each $12.50 - - - - - - - - - - - -	$150.00
6 1 5/8" carbide " " price each $13.50 - - - - - - - - - - - -	$ 81.00
1 water pressure tank with fittings - - - - - - - - - - - - - -	$110.00
1 one ton mine car -	$175.00
133 yards mine rails 12 pounds - - - - - - - - - - - - - - - - -	$319.20
Rail spikes -68 pounds -	$ 12.80
Splice bars -93 pounds -	$ 18.60
Track bolts and nuts-21 pounds - - - - - - - - - - - - - - - - -	$ 4.80
Wood track ties 700 board feet @ $80.00M - - - - - - - - - - - -	$56.00
Hand crank fuel pump -	$ 20.00
Fuel and oil supply tank and barrels - - - - - - - - - - - - - -	$100.00
The total of equipment to be purchased new	$2,134.40

(C) Items furnished by me

1-1950 ½ ton G.M.C, truck to haul men and supplies. Depreciation would include tires and repairs if any are needed. - - - - - - - - - - - - - - - - - - $420.00

1- power saw for cutting mine timbers abd clearing timber in preparation for building road. Depreciation would be about $50.00

Total $470.00

8. Wages for three miners, 96 working days each (four months).

We would have to work six days a week and pay construction drillers scale which is $1.85 per hour for straight time, $2.78 per hour for overtime plus 10% of total wages for compensation, etc. Wages paid would have to be above union miners wage scale in order to attract miners to an out of the way place with poor accommodations.

Each miner would receive $101.74 each week for about sixteen weeks if he worked full time.

$101.74 times 16 equals $1627.84 for three miners equals	- - - - - -	$4883.52
1-supervisor for five months @ $270.00 per month supervisors wages figured @ part time	#7 - - - - - - - - - -	$1350.00
		$6233.52
10% for compensation -		$ 623.35
	Total wages - - - -	$6856.87

9. Most mine timbers,if needed,can be cut on the mining claim at small expense . Allow 2,000 board feet of lagging. Rough lumber would cost about $80.00 per M. delivered at mine.

2,000 bd. ft. @ $80.00 per M. - - - - - - - - $160.00

Oil and fuel for compressers--

Deisel fuel for compresser at the rate of 30 gallon a day for 96 working days; 60 days work in tunnel and 20 days drilling to test trenches stripped by dozer and 16 days building road ff needed.

Deisel fuel would cost about 24¢ a gallon delivered at mine.

30x96 -2880 gal. @ 24¢ - - - - - - - - - - - -	$691.20
Compresser oil - - - - - - - - - - - -	$100.00
Gasoline for supply truck average 25 gallons a week for 20 weeks @ 31¢ a gal. - - - - - - - - - - - - - - - -	$155.00
Grease and oil for supply truck - - - - - - - - - - -	$ 30.00
Total - - -	$976.20

Explosives

It would take about 2,500 pounds of powder which cost about $23.00 a hundred.

2,500 lbs.@ $23.00 per hundred - - - - - - -	$575.00
600 caps @ $3.00 per hundred - - - - - - - -	$18.00
4,800 feet of fuse @ 1½¢ per foot - - - -	$72.00
Total - - -	$665.00

Miscellaneous items

Accounting,assaying,engineering,shovels,picks, bars,hand saws,small tools,pipe wrenches,carbide lights,sledge hammers,grease and oil,minor repairs,and expense of locating and delivering equipment and supplies to the mine.

Total estimate on above-about $700.00

10. (A) I have no cash available to invest in this project,however I am prepared to take the place of one of the miners,the project calls for;and also to manage the project at a much lower rate of pay than a general manager could be hired for. I also can furnish one ½ton truck and one power saw.

(B) Yes, my services and equipment I would furnish would add up to more than twice my part of the total cost of the project,in accordance with regulations on government participation (Sec.9 of MO -5.

I would like to have my part of the cost divided over the five months(life of project) and have the government subtract my part of the costs out of my pay check each month.

11. It should be made clear that it will be much better and cheaper to start this project early in the season and endeavor to finish the project by the end of the season.

It may be possible to acquire many items second handed or rent them. This would cut down on the total cost of the project. I have figured all the items at a new and delivered price. I am not sure that I could buy used,or rent; because it would be useless to spend time and money locating these items only to find that they were rented or sold by the time I was ready to use them.

The attached map answers No.2 (B) and 4 on form MF-103. Also answers question No.12.A. in form MF -100

5/15/52 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

May 14, 1952

Memorandum

To: Ernest Wm. Ellis, DMEA, Room 4640

From: Stanley Needleman, Rare and Precious Metals Branch

Subject: Transmittal of DMEA #2520, M. J. Kouba, Indian Valley, Idaho.

There has been no reported prior production of columbite at Indian Valley, Idaho. However, columbite is known to occur in numerous areas in Idaho with substantial concentration in the Garden Valley region in Boise and Valley Counties, Idaho. It is recommended that this application be certified for field team examination to ascertain more information regarding strategic materials including columbite, in the Indian Valley area.

Stanley Needleman
STANLEY NEEDLEMAN

Attachments

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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MAY 15 1952

DMEA-2520

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

No. 157 Howard Street
Spokane 1, Washington

May 5, 1952

Memorandum

To: Operating Committee, DMEA

From: [illegible], Region [illegible]

Subject: Transmittal of application from [illegible] J. Kauba, [illegible] Valley, Idaho (Vermiculite)

Enclosed are three copies of [illegible]-1B and three copies of [illegible]-1C for the subject application.

The application, with respect to [illegible] at least, appears to be well prepared. No one in this office is familiar with the geologics of this area, so we cannot comment on the exact size or suitable possibilities. There are no geological or like reports available either.

Assuming the property has available [illegible] [illegible], an evaluation will not be scheduled until requested.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 8 1952

Enclosures

cc: [illegible]

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

Not To Be Filled in by Applicant

Docket No. DMEA-2520
Metal or Mineral
Date Received 5-8-52
Amount $
Participation (Government %)

M.J. Kouba
Indian Valley
Idaho

Name and address of applicant

Date

If you have already filed MF-100, give date filed ....., type of assistance requested .....,

DMA Docket Number (if available) .....

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

DEPARTMENT OF THE INTERIOR
RECEIVED
MAY 8 1952

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

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10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)

By M. J. Koulba
(Signature of authorized official)

May 1, 1952
(Date)

(Title)

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U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

1.(A) The property involved consists of parts of one unpatented mining claim, with no improvements. Attached is a map sketched to approximate scale, showing dike formation, size and proposed exploration work plus three places where three samples were taken for analysis. Copies of analyses attached with explanations.

(B) I am the owner of the mining claim. My assessment work is up to date and recorded.

(C) The claim in question is named Spar Number Two.

Location, Oct. 2, 1930

Located in Idaho County, State of Idaho.

Recorded at county seat Grangeville, Idaho in date book 70 page 172.

Place of location; in an unorganized mining district, fifty-five miles by good road from Lolo, Montana; in a southwesterly direction. Twp. 37 N, Range 15 E, section 34 and extends into section 27.

There are no adjoining claims except one that I own and staked for a mill site in case I would need to mill the ore, and for a camp site.

2. (A) I expect to find columbite, beryl, sheet mica and other rare minerals.

(B) An enourmous pegmatite dike lieing in a schist formation; the schists have been intruded by numerous pegmatites and granites of all sizes.

The dike in question is composed of thousands of tons of pure potash feldspar (analysis of which is attached). This spar outcrops over an area about 400 feet by 800 feet.

To one side of the dike there is a vein of pure scrap mica (very little sheet mica exposed) varying in width from one and one half feet to three feet. The length is visible for about 130 feet where it goes under the overburden. The foot and hanging wall of the mica vein are composed of a very coarsely crystalized feldspars, quartz with some columbite. I had a spectagraphic analysis on a sample of the columbite, that analysis is attached with further explanation; the place where the sample was taken is marked on the map (sample # 2). On the highest part of the dike I found another speciamn of columbite (in place but near the surface) that place is marked on the map. Near that place is a vein (about 12 foot wide and exposed about 16 foot long) composed wholly of manganese iron garnets. (Copy of spectographic analysis on these garnets is attached and is named sample No. 1 which is also marked on the map.

There is a lot of magnetite float scattered around but I do not know where it came from.

I do believe I would find rare minerals in commercial quantities because I have found a small amount of columbite; because the analyses show this dike is carrying some very rare minerals and because there are such tremendous quantities of commercial potash feldspar, pure mica and pure quartz. All the minerals exposed in the dike are in such tremendous quantity and good quality that it is only reasonable to believe that the other associated minerals would occur in the same way if encountered. I have mined many of the rare minerals in S. Dak. so am familiar with the formation and the ways they occur.

Should this dike prove satisfactory for commercial mining there may be other pegmatites in the area of commercial value, as this claim is located in an area that has not been mined for rare minerals at any time.

These pegmatites are not mentioned in the geological survey proffessional paper 229 on mica and beryl pegmatites in Idaho and Montana, U. S. Government printing office Washington D. C. ,1950

3.(A) To determine the extent of the rare minerals by driving 130 feet of 5foot by 7foot tunnel and probably several feet of crosscut,on a highly mineralized part of the dike(marked on map)also trench stripping,to find the edges of the dike as they may alsocarry commercial amounts of mineral.(Also marked on the map

I would have to build one half mile of road to make the dike accessible.

I plan to hire a D8 cat and operator by the hour or by linear feet. In either case the cost would be about the same. To build the road and to trench strip the edges of the dike also drill and blast any likely looking places that show up in the stripping operation. I plan to do this first to make the pegmatite accessible and to be sure I have picked the best place to open the dike;but I will need a compressor and drilling equipment on hand from the start as there are a few spots that may have to be drilled and blasted in order to get a road through.

It costs $12.00 and hour to hire a cat and operator or$1.00 per linear foot. There will be 2640 feet of road,plus 600 feet of stripping. It would take a good cat about 40 hours under existing conditions to complete the stripping.(Stripping is marked on the map with yellow lines).

Stripping dike @$12.00 per hour - - - - - - - - - -	$480.00
Road @ $1.00 per linear foot - - - - - - - - -	$2,640.00
Hired cat and operator - - - - - -total- -	$3,120.00
Working capital including materials,explosives,facilities,wages buildings,etc.	$9811.07
Equipment furnished by me and other equipment rented - - - - - - - -	$1320.00
Equipment purchased new - - - - - - - - - - - -	$2,134.40
Total cost of project - - - - - - - - - - - -	$16385.47

(B) The project would be completed in about five months from the time the capital was made available,if made available early in the operating season. If finances are not made available until late,the project would have to be carried over into the next season. That includes the time it would take to locate and get delivery on equipment,etc. It would take about thirty days to get started and ninety -six working days more to complete the project.

M. J. Poulk - - - - -Indian Valley, Idaho

4. Detailed map attached.

5. Existing facilities ,etc. None

6. I would need a temporary camp which would consist of three tents with floors and tent frames.

3 - - - -12x14 foot tents and flys @ $75.00	- - - - - -	$225.00
Rough lumber @ $80.00 per M. 2100 board feet	- - - -	$168.00
Labor on building camp and clearing	- - - - - - - - -	$60.00
Total cost of camp	- - - - - - - - - - -	$453.00

M. J. Kouba - - - - - - Indian Valley, Idaho

7(A) To be rented on a rental purchase basis:

1. 105 C foot two stage compressor, freight on compressor 150 for 5 months at $ 140 per month Total $ 850.00

(B) Purchased new and delivered

200 foot one inch air hose with fittings - - - - - - - - - - - - -	$ 162.00
200 foot ½ inch water pressure hose with fittings - - - - - - - -	$ 60.00
1 sinker drill -	$ 465.00
1 air feed leg -	$ 120.00
6 sets drill steel 7/8 inch up to 12 foot long, 2 changes - - - -	$279. 00
12 1½" carbide Rockbits price each $12.50 - - - - - - - - - - - -	$150.00
6 1 5/8" carbide " " price each $13.50 - - - - - - - - - - - -	$ 81.00
1 water pressure tank with fittings - - - - - - - - - - - - - -	$110.00
1 one ton mine car -	$175.00
133 yards mine rails 12 pounds - - - - - - - - - - - - - - - - -	$319.20
Rail spikes -60 pounds -	$ 12.80
Splice bars -93 pounds -	$ 18.60
Track bolts and nuts-21 pounds - - - - - - - - - - - - - - - - -	$ 4.80
Wood track ties 700 board feet @ $80.00M - - - - - - - - - - - -	$56.00
Hand crank fuel pump -	$ 20.00
Fuel and oil supply tank and barrels - - - - - - - - - - - - - -	$100.00
The total of equipment to be purchased new	$2,134.40

(C) Items furnished by me

1-1950 ½ ton G.M.C, truck to haul men and supplies. Depreciation would include tires and repairs if any are needed. - - - - - - - - - - - - - - - - - - $420.00

1- power saw for cutting mine timbers and clearing timber in preparation for building road. Depreciation would to about $50.00

Total $470.00

8. Wages for three miners, 96 working days each (four months).

We would have to work six days a week and pay construction drillers scale which is $1.85 per hour for straight time, $2.78 per hour for overtime plus 10% of total wages for compensation, etc. Wages paid would have to be above union miners wage scale in order to attract miners to an out of the way place with poor accommodations.

Each miner would receive $101.74 each week for about sixteen weeks if he worked full time.

$101.74 times 16 equals $1627.84 for three miners equals - - - - - -	$4883.52
1-supervisor for five months @ $270.00 per month supervisors wages figured part time // - - - - - - - - - -	$1350.00
	$6233.52
10% for compensation -	$ 623.35
Total wages - - - -	$6856.87

9. Most mine timbers,if needed,can be cut on the mining claim at small expense . Allow 2,000 board feet of lagging. Rough lumber would cost about $80.00 per M. delivered at mine.

2,000 bd. ft. @ $80.00 per M. - - - - - - - - $160.00

Oil and fuel for compressors--

Deisel fuel for compressor at the rate of 30 gallon a day for 96 working days; 60 days work in tunnel and 20 days drilling to test trenches stripped by dozer and 16 days building road if needed.

Deisel fuel would cost about 24¢ a gallon delivered at mine.

30x96 -2880 gal. @ 24¢ - - - - - - - - - - - -	$691.20
Compressor oil - - - - - - - - - - - -	$100.00
Gasoline for supply truck average 25 gallons a week for 20 weeks @ 31¢ a gal. - - - - - - - - - - - - - - - -	$155.00
Grease and oil for supply truck - - - - - - - - - -	$ 30.00
Total - - -	$976.20

Explosives

It would take about 2,500 pounds of powder which cost about $23.00 a hundred.

2,500 lbs.@ $23.00 per hundred - - - - - - -	$575.00
600 caps @ $3.00 per hundred - - - - - - -	$18.00
4,800 feet of fuse @ 1½¢ per foot - - - -	72.00
Total - - -	$665.00

Miscellaneous items

Accounting,assaying,engineering,shovels,picks, bars,hand saws,small tools,pipe wrenches,carbide lights,sledge hammers,grease and oil,minor repairs,and expense of locating and delivering equipment and supplies to the mine.

Total estimate on above about $700.00

M.J.Kouba - - - - - -Indian Valley, Idaho

10. (A) I have no cash available to invest in this project,however I am prepared to take the place of one of the miners,the project calls for;and also to manage the project at a much lower rate of pay than a general manager could be hired for. I also can furnish one ½ton truck and one power saw.

(B) Yes, my services and equipment I would furnish would add up to more than twice my part of the total cost of the project,in accordance with regulations on government participation (Sec.9 of MO -5.

I would like to have my part of the cost divided over the five months(life of project) and have the government subtract my part of the costs out of my pay check each month.

11. It should be made clear that it will be much better and cheaper to start this project early in the season and endeavor to finish the project by the end of the season.

It may be possible to acquire many items second handed or rent them. This would cut down on the total cost of the project. I have figured all the items at a new and delivered price. I am not sure that I could buy used,or rent; because it would be useless to spend time and money locating these items only to find that they were rented or sold by the time I was ready to use them.

The attached map answers No.2 (B) and 4 on form MF-103. Also answers question No.12,A. in form MF -100

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2520

Date received 5-8-52

M.J.Kouba
Indian Valley
Idaho

Name and address of applicant

Date

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts. None
   (*b*) Linear feet of drifts and crosscuts. None
   (*c*) Linear feet of tunnels or adits. None
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   ☒ Owner.
   ☐ Lessee.
   ☐ Contractor.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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5. Number of years in production None

   If not in production or operation, estimated date when production will begin
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production: None

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. Can not answer

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

Refer to attached papers. Page 3

16—63792-1

M. J. Kouba----------Indian Valley, Idaho

1.(A) So far nothing has been produced, but there is an abundance of pure clean feldspar. (Copy of analysis attached) The spar outcrops over an area 400 feet wide and 800 feet long (check on map) that much can be seen protruding through the overburden. Towards one side of the dike there is a vein of pure mica (very little sheet mica exposed) varying in width from 1½ to 3 feet. The length is visible about 150 feet where it goes under the overburden. The foot and hanging walls of the mica vein are composed of very coarsely crystalized feldspars, quartz with some columbite, of which we had a spectagraphic analysis (analysis and explanation page 2 (Sample S2)

(B) I do not know how many by products there would be, as this property has never been mined, but there are many indications of a rare mineral producer especially beryl, columbite, and possibly sheet mica; due to the fact that this dike is so well crystalized, with each mineral well separated. This dike has been fo med in a suitable formation to expect these minerals.

2. I staked this claim originally, so it has had no other name. Spar Number Two is the name I gave it.

(A) None

(B) None

(C) None

(D) None. It has never been mined. There would be no pumping problems. Tremendous size. (check map) Could be mined on any scale desired, for feldspar or mica; other minerals I do not know. The only openings are small test holes that I have dug (about 5'x5'x5') through the overburden to try to determine the extent of the dike, and to suffice for discovery and assessment work. These test holes are marked on accompanying map and indicate what was in the bottom of each.

3. (A) Fifty-five miles by road to Lolo, Montana (railhead) in a south westerly direction.

(B) Unorganized mining district.

(C) Township 37 N. Section 34 and extends into section 27 Range 13E.

(D) Idaho County, State of Idaho

4. (A) Property has never been in operation.

(B) I would operate as owner.

5. Production--None.

I cannot estimate when production will begin, until preliminary work is completed, then I will know what I have in regards to rare mineral and in what quantity.

6.(A) The Applicant--Four years operating my own feldspar, mica and rare mineral mines in the Black Hills at Custer, S. Dakota. Six years contract mining in the Coeur-d'Alene mining district, in lead and zinc. Two years contract logging operations. Four years dam and highway, construction rock drilling. Thirteen years prospecting in my spare time.

(B) I would manage the project.

7. (A) No previous operations:

This property has never been developed, as we could not find a suitable market for the feldspar or mica due to high freight rates; or have I had available finances to develop it for rare minerals.

(B) No adjoining properties:

This property is in a primitive area. I have not had the opportunity to prospect it for other pegmatites dikes, but as a rule they lay in groups.

¢C) No private reports available;

I have not had this property examined.

12. An enormous pegmatite dike lieing in a schist formation, the schists have been intruded by numerous pegmatites and granites of all sizes. Attached is a map of the dike. Explanations in No.1 (A) page 1. I have not had the property examined by a geologist.

13. Access Roads:

Total mileage is fifty-five miles from the property to Lolo, Montana, which is the closest established residential point (also railhead). Twenty-five miles is tarred, thirty miles is natural gravel, of which fifteen miles is 2% adverse, and five miles 6% adverse for the loaded trucks. Thirty-five miles would average about 3% down grade. One half mile of road would have to be built from main road to mine.

14. Water:

There is an abundance of pure water the year around from a creek near by, which could be piped if necessary.

15. Power:

No electric power is available, but most of our power would be deisel fuel to drive air compresses, etc.

18. Yes, if this operation should be developed it would have to be a six months of a year operation due to heavy snows in that area, unless it were mined on a large enough scale to warrant snow removal. Some seasons would be longer.

(*b*) If deposit is other than pla

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable) Tremendous	tonnage of	feldspar ar	d mica.	Oth er minerals	unknown

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor: None

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities: None

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)

By M J Kowba
(Signature of authorized official)

May 1, 1952
(Date)

(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

EXPLORATION

Subject: DMEA-2520
Re: Exploration Loan
Spar Number Two
May 13, 1952

Mr. M. J. Kouba
Indian Valley
Idaho

My dear Mr. Kouba:

This will acknowledge receipt of your application dated May 1, 1952 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2520 and referred to the Rare and Miscellaneous Metals Division.

Kindly refer to DMEA-2520 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Administrative Officer

7862

DMEA-2520

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

WASHINGTON 25, D. C.

So. 157 Howard Street
Spokane 4, Washington

May 5, 1952

Memorandum

To: Operating Committee, DMEA

From: Field Team, Region II

Subject: Transmittal of application from M. J. Kouba, Indian Valley, Idaho (Pegmatite)

Enclosed are three copies of MF-103 and three copies of MF-100 for the subject application.

The application, with respect to costs at least, appears to be well prepared. No one in this office is familiar with the pegmatites of this area, so we cannot comment on the sheet mica or columbite possibilities. There are no published or file reports available either.

Although one copy of the application is being retained, an examination will not be scheduled until requested.

DEPARTMENT OF THE INTERIOR
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Enclosures

cc: USBM

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

Not To Be Filled in by Applicant

Docket No. DMEA-2520
Metal or Mineral
Date Received 5-8-52
Amount $
Participation (Government %)

M. J. Kouba
Indian Valley
Idaho

Name and address of applicant

Date

If you have already filed MF-100, give date filed _____, type of assistance requested _____,

DMA Docket Number (if available) _____

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

DEPARTMENT OF THE INTERIOR
MAY 8 1952

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)	By M J Koulva (Signature of authorized official)
May 1, 1952 (Date)	(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

1.(A) The property involved consists of parts of one unpatented mining claim,with no improvements. Attached is a map sketched to approximate scale,showing dike formation, size and proposed exploration work plus ~~two~~ three places where three samples were taken for analysis. Copies of analyses attached with explanations.

(B) I am the owner of the mining claim. My assessment work is up to date and recorded.

(C) The claim inquestion is named Spar Number Two.

Location,Oct.2,1950

Located in Idaho County, State of Idaho.

Recorded at county seat Grangeville,Idaho in date book 78 page 172.

Place of location; in an unorganized mining district,fifty-five miles by good road from Lolo, Montana;in a southwesterly direction. Twp 37 N, Range 13 E, Section 34 and extends into section 27.

There are no adjoining claims except one that I own and staked for a mill site in case I would need to mill the ore;and for a camp site.

[redacted]. J. Kouba ---- Indian Valley, [redacted]daho

2.(A) I expect to find columbite, beryl, sheet mica and other rare minerals.

(B) An enormous pegmatite dike lieing in a schist formation; the schists have been intruded by numerous pegmatites and granites of all sizes.

The dike in question is composed of thousands of tons of pure potash feldspar(analysis of which is attached). This spar outcrops over an area about 400feet by 800 feet.

To one side of the dike there is a vein of pure scrap mica(very little sheet mica exposed) varying in width from one and one half feet to three feet. The length is visible for about 150 feet where it goes under the overburden. The foot and hanging wall of the mica vein are composed of a very coarsely crystalized feldspars, quartz with some columbite. I had a spectagraphic analysis on a sample of the columbite, that analysis is attached with further explanation; the place where the sample was taken is marked on the map(sample S 2). On the highest part of the dike I found another speciman of columbite(in place but near the surface) that place is marked on the map. Near that place is a vein (about 12 foot wide and exposed about 16 foot long) composed wholly of manganese iron garnets.(Copy of spectographic analysis on these garnets is attached and is named sample No.1 which is also marked on the map.

There is a lot of magnetite float scattered around but I do not know where it came from.

I do believe I would find rare minerals in commercial quantities because I have found a small amount of columbite; because the analyses show this dike is carrying some very rare mineral, and because there are such tremendous quantities of commercial potash feldspar, pure mica and pure quartz. All the minerals exposed in the dike are in such tremendous quantity and good quality that it is only reasonable to believe that the other associated minerals would occur in the same way if encountered. I have mined many of the rare minerals in S. Dak. so am familiar with the formation and the ways they occur.

Should this dike prove satisfactory for commercial mining there may be other pegmatites in the area of commercial value as this claim is located in an area that has not been mined for rare minerals at any time.

These pegmatites are not mentioned in the geological survey professional paper 229 on mica and beryl pegmatites in Idaho and Montana, U. S. Government printing office Washington D. C. 1950

3.(A) To determine the extent of the rare minerals by driving 150 feet of 5 foot by 7 foot tunneltunnel and probably several feet of crosscut,on a highly mineralized part of the dike (marked on the map) also trench stripping,to find the edges of the dike as they may also carry commercial amounts of mineral.(Also marked on the map)

I would have to build one half mile of road to make the dike accessible.

I plan to hire a D8 cat and operator by the hour or by linear feet. In either case the cost would be about the same. To build the road and trenchstrip the edges of the dike,also drill and blast any likely looking places that show up in the stripping operation. I plan to do this first to make the pegmatite accessible and to be sure I have picked the best place to open the dike;but I will need a compressor and drilling equipment on hand from the start as there are a few spots that may have to be drilled and blasted in order to get a road through.

It costs $12.00 per hour to hire a cat and operator or $1.00 per linear foot. There will be 2640 feet of road,plus 600 feet of stripping. It would take a good cat about 40 hours under existing conditions to complete the stripping.(stripping is marked on map with yellow lines)

Stripping dike @ $12.00 per hour ----------	$480.00
Road @ $1.00 per linear foot ------- - - - - -	$2,640.00
Hired cat and operator - - - - - - -total--	$3,120.00
Working capital including materials,explosives facilities,wages,buildings,etc.	$9,811.07
Equipment furnished by me and other equipment rented ---	$1320
Equipment purchased new - - - - - - - - -	$2,134.40
Total cost of project - - - -	$16,385.47

(B) The project would be completed in about five months from the time the capital was made available,if made available early in the operating season. If finances are not made available untill late the project would have to be carried over into the next season. That includes the time it would take to locate and get delivery on equipment,etc. It would take about thirty days to get started and ninety six working days more to complete the project.

M. J. Kouba - - - - - -Indian Valley, Idaho

4. Detailed map attached.

5. Existing facilities,etc. None

6. I would need a temporary camp which would consist of three tents with floors and tent frames.

3 - - -12'x14' foot tents and flys@ $75.oo - - - - - - - -	$225.00
Rough lumber @$80.00 per M. 2100 board feet - - - - -	$168.00
Labor on building camp and clearing - --- - - - - --	$ 60.00
Total cost of camp - - - - - - - - - - - -	$453.00

M. J. Kouba - - - - - Indian Valley, Idaho

7.(A) To be rented on a rental ourchase basis

1. 105 C foot two stage compressor, for five months @ $ 140 per month (freight on compressor $150) Total $ 850.00

(B) Purchased new and delivered

200 foot one inch air hose with fittings	$162.00
200 foot ½inch water pressure hose with fittings	$ 60.00
1 sinker drill	$465.00
1 air feed leg	$120.00
6 sets drill steel 7/8 inch up to 12 foot long 2' changes	$279.00
12 1½"carbide Rockbits price each $12.50	$150.00
6 ⅝"carbide " " price each $13.50	$ 81.00
1 water pressure tank with fittings	$110.00
1 one ton mine car	$175.00
133 yards mine rails 12 pounds	$319.00
Rail spikes-68 pounds	$ 12.80
Splice bars-93 pounds	$ 18.60
Track bolts and nuts-21 pounds	$ 4.80
Wood track ties 700 board feet @ $80.00 M.	$ 56.00
Hand crank fuel pump	$ 20.00
Fuel and oil supply tank and barrels	$100.00
The total of equipment to be purchased new	$2,134.40

(C) Items furnished by me

1-1950 G.M.C. truck to haul men and supplies. Depreciation would include tires and repairs if any are needed. - - - - - - - - - - - - - - $420.00

1- Power saw for cutting mine timbers and clearing timber in preparation for building road. Depreciation would be about - - - - - - - - - - $ 50.00

Total $470.00

8. Wages for three nminers, 96 working days each (four months).

We would have to work six days a week and payconstruction drillers scale which is $1.85 per hour for straight time, $2.78 per hour for overtime plus 10% of total wages for compensation,etc. Wages paid would have to be above union miners wage scale in order to attract miners to an out of the way place with poor accomodations.

Each miner would receive $101.74 each week for about sixteen weeks if he worked full time.

$101.74 times sixteen equals $1627.84 ,for three miners equals - - - - $4883.52

1- supervisor for five months @$270.00 per month
supervisors wages figured @ part time - - - - - - - - - - - $1350.00
10% for compensation - - - - - - - - - - - 623.35
Total wages - - $6856.87

9. Most mine timbers, if needed, can be cut on the mining claim at small expense. Allow 2,000 board feet of lagging. Rough lumber would cost about $80.00 per M. delivered at mine.

2,000 bd. ft. @ $80.00 perM. - - - - - - - - $160.00

Oil and fuel for compressors --

Deisel fuel for compressor at the rate of 30 gallon a day for 96 working days; 60 days work in tunnel and 20 days drilling 16 test trenches stripped by dozer and 16 days building road if needed.

Deisel fuel would cost about 24¢ a gallon delivered at mine.

30 x96 - 2,880 gal. @ 24¢ - - - - - - - - - - -$691.20
Compressor oil - - - - - - - - - - - - - - - - $100.00

Gasoline for supply truck average 25 gallons a week for 20 weeks @ 31¢ a gal. - $155.00

Grease and oil for supply truck - - - - - - - - - - - - - - - - $ 30.00

Total --- $976.20

Explosives

It would take about 2,500 pounds of powder which cost about $25.00 a hundred.

2,500 lbs. @ $25.00 per hundred - - - - - - - -$575.00
600 caps @ $3.00 per hundred - - - - - - - - $ 18.00
4,800 feet of fuse @1½¢ per foot - - - - - - - $ 72.00

Total - - $665.00

Miscellaneous items

Accounting, assaying, engineering, shovels, picks, bars, hand saws, small tools, pipe wrenches, carbide lights, sledge hammers, grease and oil, minor repairs, and expense of locating and delivering equipment and supplies to the mine.

Total estimate on above--about - - - - -$700.00

10.(A) I have no cash available to invest in this project, however I am prepared to take the place of one of the miners, the project calls for; and also to manage the project at a much lower rate of pay than a general manager could be hired for. I also can furnish one ½ ton truck and one power saw.

(B) Yes, my services and equipment, I would furnish would add up to more than twice my part of the total cost of the project, in accordance with regulations on Government participation (Sec.9 of MO -5.

I would like to have my part of the cost divided over the five months(life of project) and have the government subtract my part of the costs out of my pay check each month.

[illegible]

11. Itshould be made clear that it will be much easier and cheaper to start this project early in the season and endeavor to finish the project by the end of the season.

It may be possible to acquire many items second handed or rent them. This would cut down on the total cost of the project. I have figured all the items at a new and delivered price. I am not sure that I could buy used, or rent;because it would be useless to spend time and money locating these items only to find that they were rented or sold by the time I was ready to use them.

The attached map answers No.2(B) and 4 on form MF-103. Also answers question No.12-A in form MF-100

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA FOR USE UNDER THE DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2520

Date received 5-8-52

M.J.Kouba
Indian Valley
Idaho

Name and address of applicant

Date

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts. None
   (*b*) Linear feet of drifts and crosscuts. None
   (*c*) Linear feet of tunnels or adits. None
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☒ Owner.
   - ☐ Lessee.
   - ☐ Contractor.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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5. Number of years in production None

   If not in production or operation, estimated date when production will begin
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

M. J. Kouba----------Indian Valley, Idaho

1.(A) So far nothing has been produced, but there is an abundance of pure clean feldspar. (Copy of analysis attached) The spar outcrops over an area 400 feet wide and 800 feet long (check on map) that much can be seen protruding through the overburden. Towards one side of the dike there is a vein of pure mica (very little sheet mica exposed) varying in width from 1½ to 3 feet. The length is visible about 150 feet where it goes under the overburden. The foot and hanging walls of the mica vein are composed of very coarsely crystalized feldspars, quartz with some columbite, of which we had a spectagraphic analysis (analysis and explanation page 2 (Sample S2)

(B) I do not know how many by products there would be, as this property has never been mined, but there are many indications of a rare mineral producer especially beryl, columbite, and possibly sheet mica; due to the fact that this dike is so well crystalized, with each mineral well separated. This dike has been formed in a suitable formation to expect these minerals.

2. I staked this claim originally, so it has had no other name. Spar Number Two is the name I gave it.

(A) None

(B) None

(C) None

(D) None. It has never been mined. There would be no pumping problems. Tremendous size. (check map) Could be mined on any scale desired, for feldspar or mica; other minerals I do not know. The only openings are small test holes that I have dug (about 5'x5'x5') through the overburden to try to determine the extent of the dike, and to suffice for discovery and assessment work. These test holes are marked on accompanying map and indicate what was in the bottom of each.

3. (A) Fifty-five miles by road to Lolo, Montana (railhead) in a south westerly direction.

(B) Unorganized mining district.

(C) Township 37 N. Section 34 and extends into section 27 Range 13E.

(D) Idaho County, State of Idaho

4. (A) Property has never been in operation.

(B) I would operate as owner.

5. Production--None.

I cannot estimate when production will begin, until preliminary work is completed, then I will know what I have in regards to rare mineral and in what quantity.

6.(A) The Applicant--Four years operating my own feldspar, mica and rare mineral mines in the Black Hills at Custer, S. Dakota. Six years contract mining in the Coeur-d'Alene mining district, in lead and zinc. Two years contract logging operations. Four years dam and highway, construction rock drilling. Thirteen years prospecting in my spare time.

(B) I would manage the project.

7. (A) No previous operations:

This property has never been developed, as we could not find a suitable market for the feldspar or mica due to high freight rates; or have I had available finances to develop it for rare minerals.

(B) No adjoining properties:

This property is in a primitive area. I have not had the opportunity to prospect it for other pegmatites dikes, but as a rule they lay in groups.

(C) No private reports available;

I have not had this property examined.

12. An enormous pegmatite dike lieing in a schist formation, the schists have been intruded by numerous pegmatites and granites of all sizes. Attached is a map of the dike. Explanations in No.1 (A) page 1.
I have not had the property examined by a geologist.

13. Access Roads:
Total mileage is fifty-five miles from the property to Lolo, Montana, which is the closest established residential point (also railhead). Twenty-five miles is tarred, thirty miles is natural gravel, of which fifteen miles is 2% adverse, and five miles 6% adverse for the loaded trucks. Thirty-five miles would average about 3% down grade. One half mile of road would have to be built from main road to mine.

14. Water:
There is an abundance of pure water the year around from a creek near by, which could be piped if necessary.

15. Power:
No electric power is available, but most of our power would be deisel fuel to drive air compresses, etc.

18. Yes, if this operation should be developed it would have to be a six months of a year operation due to heavy snows in that area, unless it were mined on a large enough scale to warrant snow removal. Some seasons would be longer.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)	Tremendous	tonnage of	feldspar and	mica. Other	minerals unknown.

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor: None

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities: None

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)

By M J Kouba
(Signature of authorized official)

May 1, 1952
(Date)

(Title)

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

Form M F-103 or MF -100 M. J. Kouba Indian Valley, Idaho

Spectrograph Qualitative Analysis Sample No. (S1)

335879

John Herman Laboratory- - - - - -Consolidated with Smith-Emery Co. 920 Santee St. Los Angeles California

Element	Estimated Quantity
iron, manganese, silicon	Main Constituents
Aluminum- -	1% -10%
Sodium -	0.1% -1%
Zirconium -	-0.1% -1%
Magnesium -	0.1% -1%
Calcium -	0.1% -1%
Potassium -	0.1% -1%
Titanium -	0.1%
Zinc -	0.01% - 0.1%
Copper -	0.001% -0.01%
Barium -	0.001% -0.01%
Chromium -	0.001%
Vanadium -	0.001%
Lead -	0.001%
Silver -	Present

This sample contained only garnet, I had it analized because there is so much of it concentrated at three different spots on the dike.(marked on the map)

Form M F-103 or M F -100 M. J. Kouba Indian [illegible]ley, Idaho

Spectrograph Qualitative Analysis Sample No. (S2)
341948

John Herman Laboratory-------Consolidated with Smith-Emery Co. 920Santee St. Los Angeles California

Element	Estimated Quantity
Silicon	Main Constituent
Aluminum	1% -10%
Iron	1% -10%
Calcium	1% -10%
Sodium	0.1% -1%
Titanium	0.1% -1%
Potassium	0.1% -1%
Magnesium	0.01% -0.1%
Manganese	-0.01% -0.1%
Columbium	-0.01%- 0.1%
Strontium	-0.01%
Lead	-0.01%
Bismuth	-0.01%
Zirconium	-0.01%
Chromium	0.001%
Copper	0.001%
Vanadium	0.001%
Nickel	-trace
Barium	trace
Gallium	trace

I will submit original copies if absolutely necessary.

We found a small amount of Columbite almost on the surface (not in commercial quanity at two points which are marked on map. From the point marked(S2) I took a sample for analysis, the sample contained about 3% columbite, the balance was about ½ spar and ½ quartz

TRINITY 4791

FORM 1

COPY

LABORATORY REPORT

SMITH-EMERY COMPANY

CHEMICAL ENGINEERS AND CHEMISTS
METALLURGICAL AND TESTING ENGINEERS
920 SANTEE STREET
LOS ANGELES 15

LABORATORY No. 351696 *Date* March 27, 1952

Sample Rock

Received 3-20-52 *Marked* "Feldspar Sample No.53"

Submitted by M. J. Kouba,
Indian Valley
Idaho.

REPORT OF DETERMINATIONS

Silica (SiO_2)	65.10%
Aluminum Oxide (Al_2O_3)	16.60%
Iron Oxide (Fe_2O_3)	0.56%
Calcium Oxide (CaO)	0.28%
Magnesium Oxide (MgO)	0.06%
Sodium Oxide (Na_2O)	6.65%
Potassium Oxide (K_2O)	10.25%
Loss on Ignition	0.05%

Respectfully submitted,

Smith-Emery Co.
CHEMISTS AND ENGINEERS
E.O.S.

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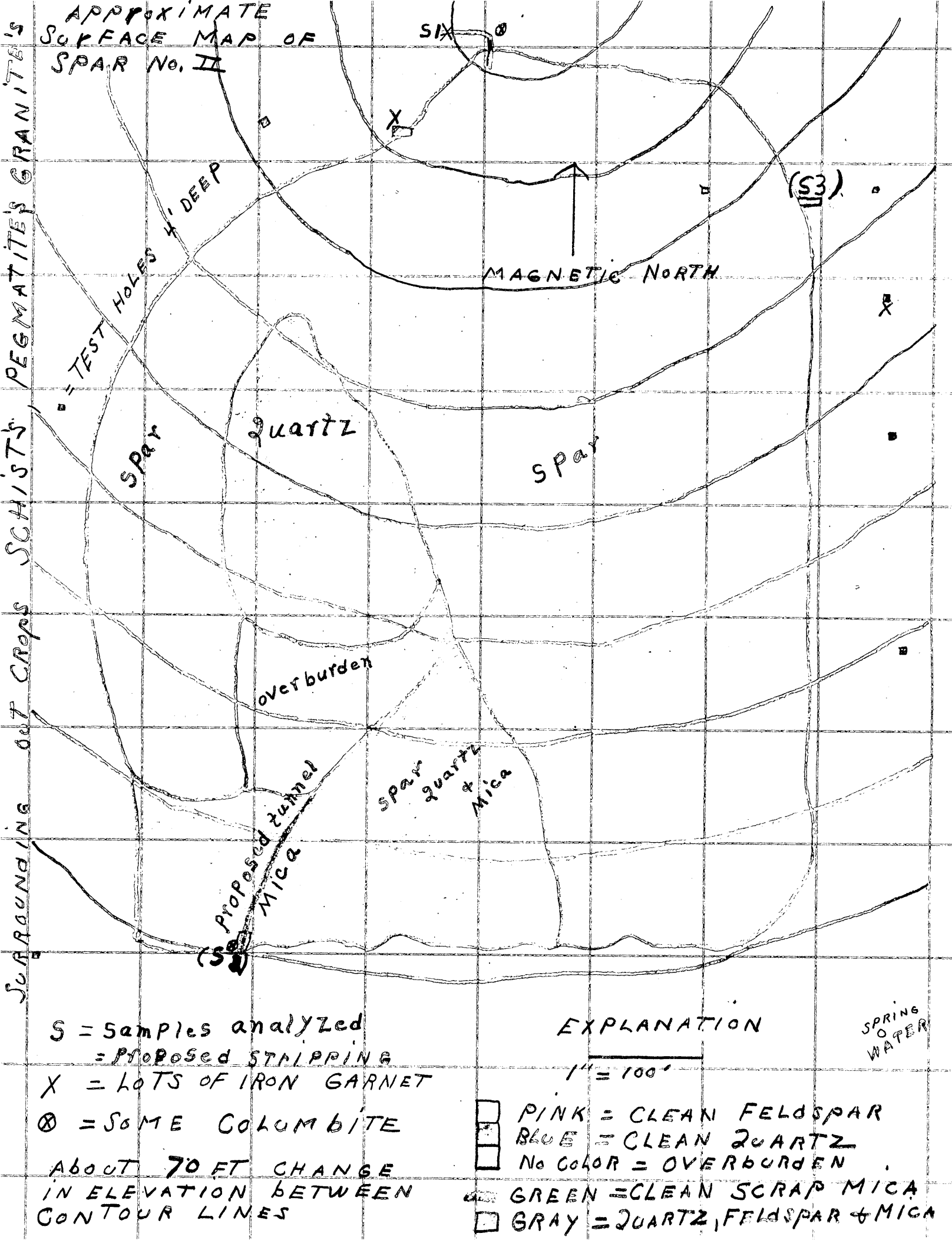
APPROXIMATE SURFACE MAP OF SPAR No. II
SURROUNDING OUT CROPS SCHISTS, PEGMATITES & GRANITES
SIX
X
(S3)
MAGNETIC NORTH
= TEST HOLES 4' DEEP
Spar
Quartz
Spar
overburden
spar quartz & Mica
proposed tunnel
Mica
(S2)
S = samples analyzed
= proposed stripping
X = LOTS OF IRON GARNET
⊗ = SOME COLUMBITE
ABOUT 70 FT CHANGE IN ELEVATION BETWEEN CONTOUR LINES
EXPLANATION
1" = 100'
PINK = CLEAN FELDSPAR
BLUE = CLEAN QUARTZ
No COLOR = OVERBURDEN
GREEN = CLEAN SCRAP MICA
GRAY = QUARTZ, FELDSPAR & MICA
SPRING WATER

map to be used for both MF-103 & MF-100

WASHINGTON D. C.

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Mr Flory Rm 4070

~~TAYLOR SPRINGS~~

~~Mr. Flory~~
Bur Mines or DMA

~~Mr. William Flory~~
~~Office of the Secretary~~
~~Dept. of Interior~~
~~Washington, D.C.~~

alt

NATIONAL FISHERIES INSTITUTE, INC.
SUITE 220, VICTOR BLDG.
724-NINTH STREET, N. W.
WASHINGTON 1, D. C.